

Date: Mon, 7 Jun 93 12:18:21 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #690  
To: Info-Hams

Info-Hams Digest                      Mon, 7 Jun 93                      Volume 93 : Issue 690

Today's Topics:

    ADVICE NEEDED - for wanna be operator (2 msgs)  
        Air-band radio question  
        Alinco DJ-580 question  
        Are Ramsey HF kits any good?  
        Curtis 8044,8044B,8044ABM ?  
FCC Notice of Violation (was: Misdirected QSL cards)  
    Formule 1 Race Frequencies  
        HTs and Customs  
        Icom 2SRA (2 msgs)  
    Misdirected 3B6 QSL cards  
        Velocity of Light  
    VK2SG RTTY DX Notes, 4 June  
        WANTED FT-101ZD  
        WANTED FT-101ZD, Radios in movies  
WARNING: Potential Satellite Proton Event Warning

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 7 Jun 1993 16:39:07 GMT  
From: olivea!news.bbn.com!levin@decwrl.dec.com  
Subject: ADVICE NEEDED - for wanna be operator  
To: info-hams@ucsd.edu

pachner@csd4.csd.uwm.edu (Thomas Jay Pachner) writes:

|1. I want to get on the air, so the Tech no-code is appealing until I can

|finish with the code tapes. The problem I foresee is myself getting lazy and  
|saying "screw it" to learning morse. Has anyone done the no-code and then  
|upgraded.

Yes, many people (including my spouse next month, we hope). As many  
as two-thirds of all no-code technicians go on to upgrade, according  
to statistics I have seen posted here.

|2. Are there any acronyms for remembering frequency privileges.  
Not that I know of, though perhaps you might invent one.

|3. Can you take the 13-wpm as a novice and have it hold until you take the  
|general written.

Yes, up to a year. When you pass the 13wpm test you will get a  
certificate good for 365 days; if you pass the general (or general and  
advanced) written test(s) within that time you don't have to take the  
code test again.

Good luck! & 73 / JBL KD10N

=

Nets: levin@bbn.com | "How does a mouse let me move the cursor anywhere  
pots: (617)873-3463 | I want?" "What are address busses?" "How do  
KD10N (@KB4N.NH.USA) | icons work?" --Time-Life Books

-----

Date: Mon, 7 Jun 1993 18:37:46 GMT

From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!

darwin.sura.net!rsg1.er.usgs.gov!resdgs1.er.usgs.gov!tbodoh@network.UCSD.EDU

Subject: ADVICE NEEDED - for wanna be operator

To: info-hams@ucsd.edu

In article <m16rpbINN5t0@news.bbn.com>, levin@bbn.com (Joel B Levin) writes:

|> pachner@csd4.csd.uwm.edu (Thomas Jay Pachner) writes:

|>

|> |1. I want to get on the air, so the Tech no-code is appealing until I can

|> |finish with the code tapes. The problem I foresee is myself getting lazy and

|> |saying "screw it" to learning morse. Has anyone done the no-code and then

|> |upgraded.

|>

|> Yes, many people (including my spouse next month, we hope). As many

|> as two-thirds of all no-code technicians go on to upgrade, according

|> to statistics I have seen posted here.

|>...

|> Good luck! & 73 / JBL KD10N

|> =

|> Nets: levin@bbn.com | "How does a mouse let me move the cursor anywhere

|> pots: (617)873-3463 | I want?" "What are address busses?" "How do  
|> KD10N (@KB4N.NH.USA) | icons work?" --Time-Life Books

--

I am going for my no-code technician on Friday and plan on passing the time before I get my ticket in the mail by studying for the 13 WPM test. Maybe that's what the 8-10 week delay is for ;-)

++++++  
+ Tom Bodoh - Sr. systems software engineer  
+  
+ USGS/EROS Data Center, Sioux Falls, SD, USA 57198 (605) 594-6830 +  
+ Internet; bodoh@dggs.cr.usgs.gov (152.61.192.66)  
+  
+ "Welcome back my friends to the show that never ends!" EL&P  
+  
++++++

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Date: Mon, 7 Jun 93 18:01:34 GMT  
From: btree!bly@network.UCSD.EDU  
Subject: Air-band radio question  
To: info-hams@ucsd.edu

In article <m0o2B9T-00000FC@amdahl.uts.amdahl.com> ikluft (Ian Kluff) writes:

>I'm sorry to say it but, unless you start taking flying lessons, you have no  
>way to legally transmit with the aviation-band HT you bought.

I don't think Julian is asking about the legality of transmitting there, he wants to know how to do it. I think the best way to figure it out is to determine what freqs the HT can xmit on (via freq counter, scanner, markings, etc), then lookup the corresponding aviation channel number, then tell your friend to meet you there. No problem unless xmitting on a tower or ground freq.

Roger (ka6mwt)

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Date: Mon, 7 Jun 1993 15:09:20 GMT  
From: usc!howland.reston.ans.net!darwin.sura.net!rsg1.er.usgs.gov!  
resdgs1.er.usgs.gov!tbodoh@network.UCSD.EDU  
Subject: Alinco DJ-580 question  
To: info-hams@ucsd.edu

In article <21870035@hplvec.LVLD.HP.COM>, scott@hplvec.LVLD.HP.COM (Scott Turner) writes:

|> In rec.radio.amateur.misc, tbodoh@resdgs1.er.usgs.gov (Tom Bodoh) writes:

|>

|> > I wonder if Alinco

|> >has made some production changes - both I (who bought mine last month) and

|> >the guy who got his at Dayton have not noticed any problem. Any thoughts?

|>

|> Hmm. One of Alinco's technical support folks mentioned a mod that

|> reduced sensitivity "a bit" with a supposedly large reduction in

|> intermod/spurious signal susceptibility. (Sorry, don't remember the

|> exact figures anymore.) I wonder if newer radios are being shipped in

|> this state by default.

|>

|> > I guess I won't know for sure until next time I go into a really heavy RF area

|> >such as Denver or Minneapolis. Bye...

|>

|> You probably know everything you need to know already. My '580 goes

|> nuts driving through my home town of Greeley, Colorado. Standing in my

|> living room with the supplied rubber dummy, several repeaters coming in

|> at full signal strenght are wiped out with incessant \*bleep/warble\*.

|> Greeley could hardly be considered intermod alley.

|>

|> Sounds like Alinco has solved some problems. Probably time for me to

|> bite the bullet and send mine back to the factory.

|>

|>

|> Scott Turner N0VRF scott@hplvec.LVLD.HP.COM

|> HP VXI Systems Division

|>

--

If you happen to confirm our suspicions that they have made a production line mod - please find out the production date of serial # after which the change was added. Some hams would most likely appreciate knowing which theirs is - particularly in advance of purchase. Thanks...

+++++

+ Tom Bodoh - Sr. systems software engineer

+

+ USGS/EROS Data Center, Sioux Falls, SD, USA 57198 (605) 594-6830 +

+ Internet; bodoh@dgg.cr.usgs.gov (152.61.192.66)

+

+ "Welcome back my friends to the show that never ends!" EL&P

+

+++++

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Date: Mon, 07 Jun 93 15:51:03 GMT  
From: sdd.hp.com!math.ohio-state.edu!darwin.sura.net!news-feed-1.peachnet.edu!  
umn.edu!csus.edu!netcom.com!netcomsv!orchard.la.locus.com!prodnet.la.locus.com!  
lando.la.locus.com!dana@network.UCSD  
Subject: Are Ramsey HF kits any good?  
To: info-hams@ucsd.edu

In article <1993Jun7.122306.8601@linus.mitre.org> m14494@mwvm.mitre.org (Mike White) writes:

>I know there's been a lot of talk about Ramsey, but I  
>haven't been following it. Now I'm thinking of building  
>the HF transmitter and receiver. Does anyone have  
>any experience or opinions about them? Quality  
>of kit? Performance of finished sets? Thanks.

>

>\*\*\*\*\*

>\* These are my opinions only.\*

>\*\*\*\*\*

I built the Ramsey 10m FM receiver. This is a small kit, it consists of a bipolar transistor front end feeding an NE602 mixer/local oscillator. The 602 is varactor tuned. The IF strip is a Motorola MC3357, complete with a Murata ceramic filter. Engineering wise, the kit is a little cheesy. It overloads very easily, the NE602 does not sport a strong mixer, the bipolar preamplifier seems to easily overdrive it. Performance wise, I'd say that the receiver is sensitive but overloads if you look at it hard.

The kit was not missing any parts when I received it; the instructions were OK for me, but they certainly are not Heathkit quality. Overall, the Ramsey kits seem rather cheesy, they appear to be of very amateur engineering. I probably won't buy another.

--

\* Dana H. Myers KK6JQ            | Views expressed here are \*  
\* (310) 337-5136            | mine and do not necessarily \*  
\* dana@locus.com    DoD #466       | reflect those of my employer  
\*  
\* This Extra supports the abolition of the 13 and 20 WPM tests \*

-----  
Date: Mon, 7 Jun 1993 17:39:37 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!noc.near.net!  
squam.banyan.com!banyan.com!dts@network.UCSD.EDU  
Subject: Curtis 8044,8044B,8044ABM ?  
To: info-hams@ucsd.edu

The latest Mouser catalog listed as available 3 different versions of the Curtis chip, the ABM was certainly there, but the others listed were the A and B. It might be worth a call to Mouser...

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Daniel Senie                Internet:    dts@banyan.com
Banyan Systems, Inc.        Compuserve:  74176,1347
508-898-1188                Packet Radio: N1JEB@WA1PHY.MA
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Date: 7 JUN 93 11:13:05

From: pa.dec.com!oct17.dfe.dec.com!ryn.mro4.dec.com!cimfie.enet.dec.com!  
taber@decwrl.dec.com

Subject: FCC Notice of Violation (was: Misdirected QSL cards)

To: info-hams@ucsd.edu

In article <1993Jun3.195929.758@mlb.semi.harris.com>, jhobson@SU19F.harris-atd.com  
(Harv Hobson) writes...

>In article <1ulh96\$324@usenet.pa.dec.com> mogul@pa.dec.com (Jeffrey Mogul)  
writes:

>>

>>Last month, I started receiving a bunch of QSL cards addressed to  
>>"3B6/K1JM". 3B6 is assigned to Mauritius (according to the 1991  
>>ARRL Handbook), and I've never been there. Nor have I been on  
>>the air, I promise. I used to get a stray QSL card every few  
>>years, but now I've received 5 or 6 all for this one callsign,  
>>so I suspect someone is confused.

>

><stuff deleted>

>

>

>At the time of the alleged violation I was not active. I didn't even  
>have a rig for the band on which the violation occurred. My guess  
>was that someone used my callsign illegally.

>

In both cases it's probably just a busted call rather than a pirate  
(especially if the mode was supposed to be CW rather than phone.) Sloppy  
senders and slurred speakers or even just ears that should have been  
sleeping rather than listening can cause odd QSLs or OO notices.

>>>==>PStJTT

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Date: Mon, 7 Jun 1993 18:00:17 GMT  
From: swrinde!cs.utexas.edu!utnut!torn!nott!bnrgate!nmerh207!  
everett@network.UCSD.EDU  
Subject: Formule 1 Race Frequencies  
To: info-hams@ucsd.edu

I am making a trip to the Montreal Grand Prix this coming weekend (June 6th) and would like to listen in on the racing teams car to pit communications during the practice and race.

Does anyone have a listing (partial or complete) of the frequencies used in Formula One racing teams. If you can post or Email I would really appreciate it. Any other racing frequencies would be welcome.

73,

...Jerry VE3XPM

=====  
Jerry Everett  
Technical Assistance Engineer. Product Support.  
Northern Telecom Canada Ltd., 1285 Baseline Road  
P.O. Box 3511, Stn. C, Ottawa, Ontario, K1Y 4H7  
PHONE: 613-763-9696 FAX: 613-765-4060  
INTERNET: JEVERETT @ BNR.CA AMPR: VE3XPM @ VE3JF.#EON.ON.CAN.NOAM  
>> All material herein is my own and does not represent the views <<  
>> or opinions of Bell Northern Research or Northern Telecom. <<  
=====

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Date: 7 Jun 93 16:26:59 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: HTs and Customs  
To: info-hams@ucsd.edu

Does anyone have experience taking a hand-held 2m transceiver through Customs? Please email. thanks

73 Mike N6MZ mikemr@microsoft.com

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Date: 7 Jun 93 17:22:34 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Icom 2SRA  
To: info-hams@ucsd.edu

It's time to buy that new HT anybody have any opinions on the Icom 2SRA...It looks very tempting with that wide band reciece....Or how about the Icom 2GAT???  
Thanks in Advance....Gary KE9MI

Internet: ST1860@siucvmb.siu.edu  
Bitnet: ST1860@siucvmb.bitnet

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Date: Mon, 7 Jun 1993 18:34:00 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!  
newsserver.jvnc.net!darwin.sura.net!rsg1.er.usgs.gov!resdgs1.er.usgs.gov!  
tbodoh@network.UCSD.EDU  
Subject: Icom 2SRA  
To: info-hams@ucsd.edu

In article <9306071623.AA16059@ucsd.edu>, ST1860@SIUCVMB.SIU.EDU (Gary R. Smith KE9MI) writes:

|> It's time to buy that new HT anybody have any opinions on the Icom 2SRA...It looks very tempting with that wide band reciece....Or how about the Icom 2GAT???  
|> Thanks in Advance....Gary KE9MI  
|>  
|> Internet: ST1860@siucvmb.siu.edu  
|> Bitnet: ST1860@siucvmb.bitnet

--  
A friend has the 2SRA and is quite pleased with it. I was going to buy one but decided to save \$100 and got the Alinco DJ-580T instead. As with any extended receive HT, intermod is a problem with the 2SRA, but my friend still likes it. Bye...

+++++  
+ Tom Bodoh - Sr. systems software engineer  
+  
+ USGS/EROS Data Center, Sioux Falls, SD, USA 57198 (605) 594-6830 +  
+ Internet; bodoh@dggs.cr.usgs.gov (152.61.192.66)  
+  
+ "Welcome back my friends to the show that never ends!" EL&P  
+  
+++++

-----  
Date: Mon, 7 Jun 1993 16:21:46 GMT  
From: usc!howland.reston.ans.net!darwin.sura.net!bogus.sura.net!news-feed-1.peachnet.edu!umn.edu!csus.edu!netcom.com!steve@network.UCSD.EDU  
Subject: Misdirected 3B6 QSL cards  
To: info-hams@ucsd.edu



In article <1uoc2aINNt68@emx.cc.utexas.edu>, oo7@emx.cc.utexas.edu (Derek Wills) writes:

> bat@gdstech.GRUMMAN.COM (Pat Masterson) proclaims:

>

> >>Firstly, 3B6 is assigned to Agalega & St. Brandon (also 3B7). Perhaps

> >>an over-tired eye muscle has failed you. It's not Mauritius (3B8).

>

> That's a bit unfair. The whole 3B allocation is to Mauritius  
> (see back of ARRL log book, making allowance for typo there).

> The original poster is not an active DXer, and this was a  
> reasonable assumption on his part. 3B6/7 (and perhaps 3B9)  
> are related to 3B8 in some way that probably means that they  
> (3B8) are the licensing authority, at least for 3B6/7.

This is a good response... and as one who has operated portable 3b8 and 3b9 I'm going to chip in a couple of confirming statements. Mauritius is the governing state for both Rodriques (3b9) and Agalega & St. Bradon(3b6) thus you get the licenses from the PT&T on Mauritius. Mauritius operators use the 3b8 prefix.

Steve KA6S (ex KA6S/3b8 and 3b9ZV)

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Date: 7 Jun 93 17:09:17 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Velocity of Light  
To: info-hams@ucsd.edu

Hi--

For what ever its worth...the most accurate speed I have seen, thanks to so me Astronomy types is 29979245800 centimeters per second in a vacuum.

Thanxs..  
Gary KE9MI

Internet: st1860@siucvmb.siu.edu  
bitnet: siucvmb.bitnet

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Date: Mon, 07 Jun 93 14:12:32 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!usenet.ins.cwru.edu!magnus.acs.ohio-state.edu!cis.ohio-state.edu!mstar!n8emr!bulletin@network.UCSD.EDU  
Subject: VK2SG RTTY DX Notes, 4 June  
To: info-hams@ucsd.edu

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=====
| Automatic relayed from packet radio via |
| N8EMR's Ham BBS, 614-895-2553 |
=====
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SB DX @ ALLBBS \$RTDX0604

VK2SG RTTY DX Notes, 4 June

VK2SG RTTY DX Notes for week ending 4 June 1993 (BID RTDX0604)

We regretfully report that there was no RTTY operation from Spratly, 9M0S. The last expedition there by Russians in April 1990 afforded much of the RTTY community a chance for a new one. There is a whole new generation of RTTY enthusiasts now on the scene that need that one. DXpeditioners please take note.

Our thanks this week go to CE3GDN, N5PSI, NT2X, I5FLN, T91ENS, WB2CJL, ZS5S, 9X5LJ and the NJ0M node of the Twin Cities DX Packet Cluster Network.

Bandpass:

Friday 28

0038-14086 UN8PFE Kazakh Republic

0042-14089 KG4HG

0111-14088 UA0SRM

0217-14089 PZ1BS

1040-14086 UA0KZ

1515-14084 UL7PBY

1646-14087 IG9/I0IA

1646-14087 TR8MD

1728-21086 A22EX

1732-14083 9K2ZZ

Saturday 29

0125-14086 PZ1BS

1104-14078 HI8BG PACTOR

1651-21087 UM8MU

1941-21087 5T5KH

2035-14088 EA6ABL

2051-14085 U050C

2053-14083 UC2LEG

2108-21089 PY1TTO

2110-14089 5X1GH

2156-14087 5X1C

Sunday 30

0243-14086 UA9FAR

0313-14088 UV9US  
0632-14087 IG9/I0IA  
0923-21082 TU2BB  
1203-21083 C91AI  
1305-14089 FR5AB  
1348-21088 9V1JY  
1420-21089 A45ZX  
1422-14084 HL5AWS  
1553-21085 5Z4FM QSL Box 34168, Nairobi  
1622-21083 8P6SM  
1623-14089 5B4VX  
2222-14084 KP2BH  
2230-14087 9Y4NED  
2311-14085 TU2BB  
2347-14084 RC2AZ  
2350-14085 TY1PS

Monday 31

0008-14086 HK0DPA  
0040-14087 LU2HNZ  
0156-14089 UA0KZ  
0245-14083 V44KAI  
0251-14086 4X6U0  
0446-14087 IG9/I0IA  
1158-21082 YI1AL  
1212-14085 P29JA  
1232-14091 KG4HG  
1410-21082 A45ZW  
1518-21088 UZ3AYR QSL WB2RAJ  
1521-21082 OM3ZJW QSL OK3JW  
1613-21086 TY1PS  
1647-21081 DL1VJ/T5 QSL via DL1VJ  
1716-21089 ET3SID  
1716-21089 ET3YU QSL POB 60349, Addis-Ababa  
1816-21088 J5UAI QSL via NW8F  
1907-21090 9K2WA  
1908-21088 PJ2PA  
2115-21081 5X1C QSL via Box 9276 Kampala

Tuesday 1

0121-14090 CE0ZIS QSL POB 1, Juan Fernandez I., Chile  
0128-14085 9K2KA  
0159-14084 RA9WE  
0202-14083 V44KAI  
0226-21087 9K2WA  
1328-14081 BT2000BJ QSL via BY1QH  
1600-21090 J5UAI  
1705-21083 ET3YU

1859-21084 5X1C  
1910-14080 HL5AW  
1920-21086 HB0/DA1WA  
2213-21086 7X2DS  
2309-14085 T91ENS

Wednesday 2

0730-14087 KP4CKY  
1235-14083 HL5AWS  
1249-14087 VK5HB  
1513-14088 BT2000BJ  
1911-21087 XT2BW  
2132-14085 ER7Z ????  
2143-21086 ET3YU

Thursday 3

0158-14083 CP5GC  
1953-14086 HB0/DA1WA  
1958-14084 S51SG  
2000-21087 HB0/DA1WA  
2027-14087 ET3YU  
2256-14090 RA2FB  
2257-14090 HK0DPA

#### Notes of Interest:

The probability is that there will be no RTTY from the imminent operation from Libya, 5A by Romeo 3W3RR, but it is not entirely out of the question. However Ed, NT2X told your editor that the subsequent expedition to Tunisia, 3V in August, will definitely include RTTY.

Some registered letters sent to UT5RP during Jan-April 1993 have not been received by Dima. He requests that anyone who has sent him one, and has not received his Ukraine QSL, please ask the local sending post office to trace the delivery.

Correction: The new callsign of 4N4ENS is T91ENS, not T92ENS as previously reported in these notes.

Send your Bandpass and Notes of Interest for next week's bulletin to I5FLN @ ZS5S.NTL.ZAF.AF or I5FLN @ 9X5LJ.#KGL.RWA.AF

73 and Good Hunting DE Jules W2JGR @ CE3GDN.#STGO.CHL.SA  
/EX  
SP KT7H @ N7DUO.WA.USA.NA

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Date: 7 Jun 93 15:55:08 GMT  
From: news.tek.com!gvgpsa.gvg.tek.com!gold.gvg.tek.com!gvgadg!randyh@uunet.uu.net  
Subject: WANTED FT-101ZD  
To: info-hams@ucsd.edu

Wanted:

FT101ZD with 2 meter option. This looks like a great transition radio  
for the no code operators.

Randy  
WA2AGE

oh, I know that the FT101ZD can work 2 meters, I saw done in the movie  
Cliffhanger!!

:-}

-----  
Date: 7 Jun 93 18:50:38 GMT  
From: news.service.uci.edu!ucivax!turner@network.UCSD.EDU  
Subject: WANTED FT-101ZD, Radios in movies  
To: info-hams@ucsd.edu

In <6569@gold.gvg.tek.com> randyh@gvgadg.gvg.tek.com (Randy Hall) writes:

>Wanted:

>FT101ZD with 2 meter option. This looks like a great transition radio  
>for the no code operators.

.....  
>oh, I know that the FT101ZD can work 2 meters, I saw done in the movie  
>Cliffhanger!!

>:-}

That brings up an interesting note....I have seen ham radio equipment in  
a number of movies. I wonder if others keep track:

The Anderson Tapes - saw the kid use an HW-101 to get help.

The Godzilla movies (forget which one) - saw a Yaesu FTdx 560 used as  
part of a "death ray" weapon.

Buckaroo Banzai - this little kid keeps in touch with Buckaroo with a Kenwood  
TS-520.

I don't often see movies, so I suppose the list goes on and on. Anyone want to add to it?

Clark

.....

Clark Savage Turner, Graduate Student Researcher  
Safety Critical Software Group home:  
Department of Info. and Computer Science 1514 Verano Place  
Irvine, CA. 92717 Irvine, CA. 92715  
(714) 856 4049 (714) 856 2131

WA3JPG, QRP #3526, active on HF, VHF and UHF.  
Admitted to practice law in California, Massachusetts, and New York.  
ARRL Volunteer Counsel

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Date: 7 Jun 93 16:14:46 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: WARNING: Potential Satellite Proton Event Warning  
To: info-hams@ucsd.edu

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POTENTIAL SATELLITE PROTON EVENT WARNING

ISSUED: 16:00 UT, 07 JUNE

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\

ATTENTION:

A major class M5.4/2N flare erupted at 14:25 UT at S09W30 (Region 7518). This flare has been associated with a Type IV sweep and showed a fairly respectable integrated x-ray flux. Over the last 20 minutes, protons at greater than 10 MeV have shown a very slight positive increase in flux as a result of this energetic event. An almost imperceptible (presently negligible) increase in protons at greater than 100 MeV has also been registered. There is a small chance protons may continue to increase to event levels of 10 pfu over the next several hours. An enhancement above at least 1 pfu is almost certain.

Communicators reliant on HF polar-path communication should be aware of the increased risk for a possible polar-cap disturbance as a result of this

anticipated proton activity. Polar cap absorption is not expected to increase very significantly, although variations in VLF signals could affect the accuracy of systems such as the OMEGA navigation system.

A major flare alert is forthcoming.

Use the Internet command: "finger solar@xi.uleth.ca" for current plots of protons at greater than 1, 10 and 100 MeV.

\*\* End of Warning \*\*

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End of Info-Hams Digest V93 #690  
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